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From the INTERNATIONAL SEARCHING AUTHORITY	PCT "			
MOTOROLA EUROPEAN INTELLECTUAL PROPERTY OPERATIONS Attn. McCormack, Derek J. Midpoint, Alencon Link Basingstoke Hampshire RG21 7PL UNITED KINGDOM	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION Reçu le (PCT Rule 44.1) 1 6 OCT. 283			
	Date of mailing (day/month/year) 14/10/2003			
Applicant's or agent's file reference CR00558P/MAW	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/EP 03/04184	International filing date (day/month/year) 18/04/2003			
Applicant MOTOROLA INC				
1. X The applicant is hereby notified that the International Search Report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.				
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later). Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the				
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer			
NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Carina Bergstr^m			

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."

"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA/220) as well as, where applicable, item 5 below.					
CR00558P/MAW ACTION International application No. International filing date (day/month/year) (Earliest) Priority Date (day/month/year)						
PCT/EP 03/04184	18/04/2003	30/04/2002				
Applicant						
MOTOROLA INC						
This International Search Report has bee according to Article 18. A copy is being to	n prepared by this International Searching Au ansmitted to the International Bureau.	ithority and is transmitted to the applicant				
This International Search Report consists	of a total of sheets.					
X It is also accompanied by	a copy of each prior art document cited in thi	is report.				
Basis of the report						
a. With regard to the language, the	international search was carried out on the baless otherwise indicated under this item.	asis of the international application in the				
the international search w Authority (Rule 23.1(b)).	ras carried out on the basis of a translation of	the international application furnished to this				
b. With regard to any nucleotide an was carried out on the basis of th	d/or amino acid sequence disclosed in the i	international application, the international search				
	onal application in written form.					
filed together with the inte	ernational application in computer readable for	rm.				
furnished subsequently to	this Authority in written form.					
	this Authority in computer readble form.					
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
the statement that the info furnished	the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished					
2. Certain claims were fou	nd unsearchable (See Box I).					
3. Unity of invention is lac	king (see Box II).					
4. With regard to the title,						
the text is approved as su	bmitted by the applicant.					
the text has been establis	hed by this Authority to read as follows:					
5. With regard to the abstract,						
the text is approved as su						
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.						
6. The figure of the drawings to be published with the abstract is Figure No.						
X as suggested by the appli	<u> </u>	None of the figures.				
because the applicant fail	ed to suggest a figure.					
because this figure better	characterizes the invention.					



Int...ational application No.

PCT/EP 03/04184

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

Abstract

Closed loop wireless communication of signals using an adaptive transmit antenna array (3), in which a plurality of copies of signals to be transmitted by the transmit antenna array (3) are produced with delays and weights (w_n^j) that are functions of the multi-path transmission channel characteristics (H) from the transmit antenna array (3) to a receive antenna array (4) of a receiver (2) and are combined before transmission by the transmit antenna array.

The receiver (2) combines the received signal components from each receive antenna element with delays and weights (*u*) that are respective functions of the multi-path transmission channels.

Preferably, the receiver comprises a multi-finger RAKE receiver (6) that copies the received signals from the receive antenna array with delays and weights (*u*) that are respective functions of the multi-path transmission channels and combines the copied received signals.

INTERNATIONAL SEARCH REPORT

Intern nal Application No

		PCT/EP 03/04184		
A. CLASS IPC 7	ification of subject matter H04B7/06 H04B7/08			
According to	o International Patent Classification (IPC) or to both national classif	fication and IPC		
	SEARCHED			
IPC 7	ocumentation searched (classification system followed by classification H04B	ation symbols)		
Documenta	tion searched other than minimum documentation to the extent tha	t such documents are included in the fields s	earched	
	data base consulted during the international search (name of data in ternal, WPI Data, PAJ, INSPEC	base and, where practical, search terms used	1)	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the i	relevant passages	Retevant to claim No.	
x	US 6 377 631 B1 (RALEIGH GREGOR) 23 April 2002 (2002-04-23)	(G)	1-3,6, 10-15, 17-19	
A	column 2, line 10 - line 43 column 4, line 12 - line 25 column 6, line 21 -column 7, line 20 - line 53 column 10, line 16 - line 29 column 13, line 6 - line 22 column 6, line 39 - line 65 column 17, line 54 - line 62 column 18, line 7 -column 20, line 20 - line 68 column 22, line 41 - line 68 column 27, line 20 - line 65 column 29, line 29 - line 52 column 30, line 12 - line 27		5,7-9,16	
X Furti	her documents are listed in the continuation of box C.	Patent family members are listed	in annex.	
A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another clation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family Date of mailing of the international search report		
I	4 August 2003	14/10/2003		
Name and r	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Lustrini, D		

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INTERNATIONAL SEARCH REPORT intern pal Application No PCT/EP 03/04184

	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category °	Ondition of decominent, with indication, where appropriate, or the relevant passages	Tielevalit to Califf 140.
X	THOMPSON J S ET AL: "DOWNLINK TRANSMIT DIVERSITY SCHEMES FOR CDMA NETWORKS" VTC 1999-FALL. IEEE VTS 50TH. VEHICULAR TECHNOLOGY CONFERENCE. GATEWAY TO THE 21ST. CENTURY COMMUNICATIONS VILLAGE. AMSTERDAM, SEPT. 19 - 22, 1999, IEEE VEHICULAR TECHNOLGY CONFERENCE, NEW YORK, NY: IEEE, US, vol. 3 CONF. 50, 19 September 1999 (1999-09-19), pages 1382-1386, XP000922334 ISBN: 0-7803-5436-2 paragraph 'OIII!	1-3,6, 10-12, 14-17,19
-	SAMPATH H ET AL: "PRE-EQUALIZATION FOR MIMO WIRELESS CHANNELS WITH DELAY SPREAD" VTC 2000-FALL. IEEE VTS 52ND. VEHICULAR TECHNOLOGY CONFERENCE. BOSTON, MA, SEPT. 24 - 28, 2000, IEEE VEHICULAR TECHNOLGY CONFERENCE, NEW YORK, NY: IEEE, US, vol. 3 OF 6. CONF. 52, 24 September 2000 (2000-09-24), pages 1175-1178, XP000988561 ISBN: 0-7803-6508-9 cited in the application abstract paragraphs '0001!, '02.2!, '03.1!, '03.2!	1,3,6, 10-12, 14,15, 17,19

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INTERNATIONAL SEARCH REPORT

ormation on patent family members

PCT/EP 03/04184

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				ΑU	4238697 A	19-03-1998
				CA	2302289 A1	05-03-1998
				EP	0920738 A1	09-06-1999
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1				JP	2001505723 T	24-04-2001
				WO	9809385 A2	05-03-1998
				WO	9809381 A1	05-03-1998
				WO	9809395 A1	05-03-1998

Form PCT/ISA/210 (patent family annex) (July 1992)